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| APPLICATION NO.                                                                                     | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/088,646                                                                                          | 08/30/2002  | Joseph R. Lakowicz   | UNIMD 6             | 7436             |
| 23599                                                                                               | 7590        | 09/17/2007           | EXAMINER            |                  |
| MILLEN, WHITE, ZELANO & BRANIGAN, P.C.<br>2200 CLARENDON BLVD.<br>SUITE 1400<br>ARLINGTON, VA 22201 |             |                      | O SULLIVAN, PETER G |                  |
|                                                                                                     |             | ART UNIT             | PAPER NUMBER        |                  |
|                                                                                                     |             | 1621                 |                     |                  |
|                                                                                                     |             | MAIL DATE            | DELIVERY MODE       |                  |
|                                                                                                     |             | 09/17/2007           | PAPER               |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 10/088,646             | LAKOWICZ, JOSEPH R. |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | Peter G. O'Sullivan    | 1621                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 26 February 2007.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-17 is/are pending in the application.
  - 4a) Of the above claim(s) 3 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,2 and 4-17 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a) All    b) Some \* c) None of:
      1. Certified copies of the priority documents have been received.
      2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
      3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

Claims 1-17 are pending in this application. In response to the restriction requirement, applicants elected group I, claims 1, 2 and 4-17, with traverse. Upon the requirement for the election of a single disclosed species, applicants elected the compound shown in figure 1. Claim 3 is held withdrawn. Applicants are requested to send copies of references mentioned in the reference section of the specification if available to them.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

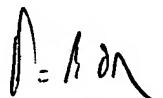
Claims 1, 2 and 4-17 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the compound of figure 1, does not reasonably provide enablement for all of applicants' luminophores. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims. Applicants' luminophores comprise a donor portion linked to an acceptor portion via a linking group. Applicants' specification does not show how to make and or use luminophores wherein the donor and acceptor portion are directly covalently linked. The donor portion and acceptor portion are defined in terms of characteristics as to wavelengths absorbed and emitted and quantum yields in close association with each other and not in close association with each other. These are characteristics which would have to be tested in practicing the invention with further D and L portions. No structural formulae set forth D and A as well as linking moieties in the claims. There

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huge number of possible D, L and A moieties. Linking moieties could affect the wavelength of emission and absorbtion. Applicants' specification does not provide support for making and using all the luminophores defined by their claims. Applicants only provide a few examples in the specification and one of ordinary skill in the art would have to carry out undue experimentation in choosing acceptable D, L and A portions as well as in designing syntheses for producing the final luminophores.

No claim is allowed.

Any inquiry concerning this communication should be directed to Peter G. O'Sullivan at telephone number (571)272-0642.

  
PETER O'SULLIVAN  
PRIMARY EXAMINER  
GROUP 1200